ABSTRACT

The present invention provides a DNA base sequencing system having a compact, simple and convenient structure.

In one embodiment of the present invention, a reaction chamber module for pyrosequencing in which a multiple number of reaction vessels (reaction chambers) 10 and reagent-introducing narrow tubes 6 are integrated is formed in a device board 5. Reagents held in reagent reservoirs 1, 2, 3 and 4 mounted separately from this reaction chamber module are introduced into the reaction vessels 10 via reagent-introducing narrow tubes (capillaries) 6. The reagent-introducing narrow tubes (capillaries) 6 at the area of 2 cm from the reaction vessels 10 are structured with narrow capillaries having an inner diameter of about 0.1 mm and the conductance of these capillaries for the reagent solution determines the injection speed of the solution.

Using the present invention, many kinds of DNAs can be analyzed simultaneously.